

RECEIVED

☒ Normal		☐ Annual		☐ Special		Date: 7-10-74		JUL 22 1974	
Well Name: MEXIL OIL CONSERVATION						O.C.C. ARTESIAN OFFICE			
Location: MEXIL OIL CONSERVATION						Unit: 320			
Date: 6-26-74		Well No.: 11490		Well No.: 11468		Elevation: 3201 ft		Name of Leaseholder: F.D. Smith, COO	
From: 11000		To: 11218		Well No.: 1					
From: 1995		To: 10000		Well No.: 1					
County: SINGO						Pack: 10975		County: PERRY	
Pressure: 175		Temperature: 60		Baro. Press.: 13.2		State: NEW MEXICO			
10975		1109		0.631		1.72		1.42	
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FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
Q	Flow Rate	X	Coeff. Size	Press. at Inj.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
1	4.1	1.5	325	4	20	3080	60	0	0	0
2	4.1	1.5	400	10	10	2840	60	0	0	0
3	4.1	1.5	630	20	20	2570	60	0	0	0
4	4.1	1.5	710	30	30	2070	60	0	0	0

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{P_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.36	53.17	3320	0.9959	1.2582	1.0266	860
2	12.36	81.30	4130	0.9963	1.2582	1.0354	1292.7
3	12.36	113.41	6130	0.9954	1.2578	1.0525	1819.4
4	12.36	152.12	7230	0.9945	1.2588	1.0635	2491.2

NO	P	Temp. °F	Z	Gas/Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.14	54.6	1.49	0.944		0.631	0.631	678	365
2	0.14	54.6	1.49	0.944		0.631	0.631	678	365
3	0.14	54.6	1.49	0.944		0.631	0.631	678	365
4	0.14	54.6	1.49	0.944		0.631	0.631	678	365

NO	P _c	P _w	P _m	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	9598.8	3101.9	9622	1891.7	2.427	2.049
2	8428.5	2912.0	8478.8	3033.4		
3	6672.9	2602.0	6770.5	4743.2		
4	4339.7	2124.8	4514.9	6998.5		

Actual to Deep Flow	3722.1	Mcfd @ 15.025	Angle of Slope	51.029	Slope, α	0.808
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Approved By Commission:	Checked By:	Calculated By:	Checked By:
	ARABIA DINE	K. C. L. W. S.	ARABIA DINE